

Reviton Burndown Programs in Soybean Arlington, WI 2022

Trial Information

Trial Sponsor(s): Helm Agro

Objective: Evaluate Reviton for control of weeds in a burndown management situation

Crop: Soybean

Variety: AG15XF1

Weed species (pressure): glyphosate-R marestail (high-very high)
lambsquarters (high-very high)

Herbicide Application(s): burndown – 6/2

For the full report see trial #22-ARL-SB31 in the [2022 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON



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Trt #	Herbicide (rate acre ⁻¹)	Marestail ^b (%)			Lambsquarters (%)		
		4 DAT	15 DAT	21 DAT	4 DAT	15 DAT	21 DAT
1	Untreated Check	0	0	0	0	0	0
One-Pass – Pre-plant Burndown (6/2)							
2	Reviton (2 oz) + Destiny HC 1% v/v	61	63	67	44	66	76
3	Reviton (1 oz) + Roundup PM (22 oz) + Destiny HC 1% v/v + AMS*	74	88	91	57	97	94
4	Reviton (1 oz) + Liberty (32 oz) + Destiny HC 1% v/v + AMS*	91	95	96	92	91	92
5	Reviton (1 oz) + Roundup PM (22 oz) + Rancor 4F (1 pt) + Destiny HC 1% v/v + AMS*	70	96	98	53	99	99
6	Reviton (1 oz) + Arrow 2EC (6 oz) + Destiny HC 1% v/v + AMS*	61	64	72	56	69	70
7	Reviton (1 oz) + LO-VOL 4 2,4-D ester (1 pt) + Destiny HC 1% v/v + AMS*	62	76	75	81	95	97
8	Reviton (1 oz) + Roundup PM (22 oz) + LO-VOL 4 2,4-D ester (1 pt) + Destiny HC 1% v/v + AMS*	73	84	89	78	97	99
9	Reviton (1 oz) + Roundup PM (22 oz) + Helmet MTZ (2.1 pt) + Destiny HC 1% v/v + AMS*	71	99	99	57	100	99
		LSD ($\alpha=0.10$)	11	7	6	8	4
		p value	0.009	<0.001	<0.001	<0.001	0.006

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

^bMarestail population is glyphosate-resistant.

*Spray grade AMS applied at 8.5 lb/100 gal.

Reviton Burndown Programs in Soybean Arlington, WI 2022

Plot pictures taken on 6/6
4 days after the burndown application

The numbers in the upper right-hand corner are the average % glyphosate-R marestail and common lambsquarters control of 4 replications

4 days after Burndown (6/6)

Untreated Check

Marestail = 0%
Lambsquarters = 0%



4 days after Burndown (6/6)

Burndown: 2 fl oz Reviton + 1% Destiny HC

Marestail = 61%

Lambsquarters = 44%



4 days after Burndown (6/6)

Burndown: 1 fl oz Reviton + 22 fl oz Roundup PM + 1% Destiny HC + AMS

Marestail = 74%

Lambsquarters = 57%



4 days after Burndown (6/6)

Burndown: 1 fl oz Reviton + 32 fl oz Liberty + 1% Destiny HC + AMS

Marestail = 91%

Lambsquarters = 92%



4 days after Burndown (6/6)

Burndown: 1 oz Reviton + 22 oz Roundup PM+ 1 pt Rancor 4F+ Destiny HC + AMS

Marestail = 70%

Lambsquarters = 53%



4 days after Burndown (6/6)

Burndown: 1 fl oz Reviton + 6 fl oz Arrow 2EC + 1% Destiny HC + AMS

Marestail = 61%

Lambsquarters = 56%



4 days after Burndown (6/6)

Burndown: 1 fl oz Reviton + 1 pt LO-VOL 4 2,4-D ester + 1% Destiny HC + AMS

Marestail = 62%

Lambsquarters = 81%



4 days after Burndown (6/6)

Burndown: 1 oz Reviton+ 22 oz Roundup PM+ 1 pt 2,4-D ester+ Destiny HC + AMS

Marestail = 73%

Lambsquarters = 78%

30

4 days after Burndown (6/6)

Burndown: 1 oz Reviton+ 22 oz Roundup PM+ 2.1 pt Helmet MTZ+ Destiny HC + AMS

Marestail = 71%

Lambsquarters = 57%



Reviton Burndown Programs in Soybean Arlington, WI 2022

Plot pictures taken on 6/17
15 days after the burndown application

The numbers in the upper right-hand corner are the average % glyphosate-R marestail and common lambsquarters control of 4 replications

15 days after Burndown (6/17)

Untreated Check

Marestail = 0%
Lambsquarters = 0%



15 days after Burndown (6/17)

Burndown: 2 fl oz Reviton + 1% Destiny HC

Marestail = 63%

Lambsquarters = 66%



15 days after Burndown (6/17)

Burndown: 1 fl oz Reviton + 22 fl oz Roundup PM + 1% Destiny HC + AMS

Marestail = 88%

Lambsquarters = 97%



15 days after Burndown (6/17)

Burndown: 1 fl oz Reviton + 32 fl oz Liberty + 1% Destiny HC + AMS

Marestail = 95%

Lambsquarters = 91%



15 days after Burndown (6/17)

Burndown: 1 oz Reviton + 22 oz Roundup PM+ 1 pt Rancor 4F+ Destiny HC + AMS

Marestail = 96%

Lambsquarters = 99%



15 days after Burndown (6/17)

Burndown: 1 fl oz Reviton + 6 fl oz Arrow 2EC + 1% Destiny HC + AMS

Marestail = 64%

Lambsquarters = 69%



15 days after Burndown (6/17)

Burndown: 1 fl oz Reviton + 1 pt LO-VOL 4 2,4-D ester + 1% Destiny HC + AMS

Marestail = 76%

Lambsquarters = 95%



15 days after Burndown (6/17)

Burndown: 1 oz Reviton+ 22 oz Roundup PM+ 1 pt 2,4-D ester+ Destiny HC + AMS

Marestail = 84%

Lambsquarters = 97%



2

15 days after Burndown (6/17)

Burndown: 1 oz Reviton+ 22 oz Roundup PM+ 2.1 pt Helmet MTZ+ Destiny HC + AMS

Marestail = 99%

Lambsquarters = 100%



Reviton Burndown Programs in Soybean Arlington, WI 2022

Plot pictures taken on 6/23
21 days after the burndown application

The numbers in the upper right-hand corner are the average % glyphosate-R marestail and common lambsquarters control of 4 replications

21 days after Burndown (6/23)

Untreated Check

Marestail = 0%
Lambsquarters = 0%



21 days after Burndown (6/23)

Burndown: 2 fl oz Reviton + 1% Destiny HC

Marestail = 67%

Lambsquarters = 76%



21 days after Burndown (6/23)

Burndown: 1 fl oz Reviton + 22 fl oz Roundup PM + 1% Destiny HC + AMS

Marestail = 91%

Lambsquarters = 94%



21 days after Burndown (6/23)

Burndown: 1 fl oz Reviton + 32 fl oz Liberty + 1% Destiny HC + AMS

Marestail = 96%

Lambsquarters = 92%



21 days after Burndown (6/23)

Burndown: 1 oz Reviton + 22 oz Roundup PM+ 1 pt Rancor 4F+ Destiny HC + AMS

Marestail = 98%

Lambsquarters = 99%



21 days after Burndown (6/23)

Burndown: 1 fl oz Reviton + 6 fl oz Arrow 2EC + 1% Destiny HC + AMS

Marestail = 72%

Lambsquarters = 70%



21 days after Burndown (6/23)

Burndown: 1 fl oz Reviton + 1 pt LO-VOL 4 2,4-D ester + 1% Destiny HC + AMS

Marestail = 75%

Lambsquarters = 97%



21 days after Burndown (6/23)

Burndown: 1 oz Reviton+ 22 oz Roundup PM+ 1 pt 2,4-D ester+ Destiny HC + AMS

Marestail = 89%

Lambsquarters = 99%



21 days after Burndown (6/23)

Burndown: 1 oz Reviton+ 22 oz Roundup PM+ 2.1 pt Helmet MTZ+ Destiny HC + AMS

Marestail = 99%

Lambsquarters = 99%

